

**Notice of Allowability**

Application No.

09/379,385

Examiner

Thomas A. Dixon

Applicant(s)

NEY ET AL.

Art Unit

3628

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/12/06.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

### **DETAILED ACTION**

1. Applicant's amendment of 12 December 2006 has been considered.

### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Christensen on 2/13/07.

The application has been amended as follows:

in the claims, line 19 of claim 28 is amended to delete the phrase "the second means" and replace it with "a second means".

### ***Allowable Subject Matter***

3. Claims 1-28 are allowed.
4. The following is an examiner's statement of reasons for allowance:

As per Claim 1, 27.

The prior art of record, specifically Kuhn ('049) does not disclose or fairly teach: receiving an interaction record including interaction information, wherein the interaction record contains a plurality of identified data items and a respective numerical value associated with each of the identified data items;

determining how each entry of a plurality of entries of the cumulative record is to be modified by respective data items of the plurality of data items to reflect the interaction information within the interaction record based upon a data operation associated with each entry;

a thread pool with a plurality of threads processing each data item and respective numerical value of the plurality of identified data items of the interaction in parallel; and

modifying respective entries of the cumulative record in accordance with the data operation to reflect the interaction contained within the interaction record.

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As per Claim 14.

The prior art of record, specifically Kuhn ('049) does not disclose or fairly teach:  
a first process to receive an interaction record including interaction information describing a customer interaction, and wherein the interaction record contains a plurality of identified data items and a respective numerical value associated with each of the identified data items and the first process operating to identify a cumulative record to which the interaction contributes based upon an information content of the interaction record, wherein the cumulative record contains a plurality of modifiable entries each related to a different identified data item of the plurality of identified data items and at least a first entry of the cumulative record is associated with a data operation that determines how a second process modifies the first entry of the cumulative record to reflect the interaction information contained within the interaction record;

a plurality of threads of a second process to modify the plurality of entries in parallel and in accordance with the data operation to reflect the interaction information contained in the interaction record.

As per Claim 28.

The prior art of record, specifically Kuhn ('049) does not disclose or fairly teach:  
a first means to receive a first record including interaction information describing a customer interaction, wherein the interaction record contains a plurality of identified data items and a respective numerical value associated with each of the identified data items and to the first means operating to identify a cumulative record to which the interaction contributes and at least a first entry of the cumulative record is associated with a data operation that determines how a second process modifies the first entry of the cumulative record to reflect the interaction information contained within the interaction record; and

a plurality of threads of a second means to modify the plurality of entries in parallel and in accordance with the data operation to reflect the interaction information contained in the interaction record.

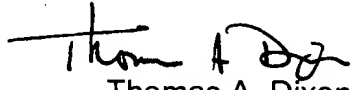
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Dixon whose telephone number is (571) 272-6803. The examiner can normally be reached on Monday - Thursday 6:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Hayes can be reached on (571) 272-6708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Thomas A. Dixon  
Primary Examiner  
Art Unit 3628

February 07